SHORTENED LAYOUT FROM DRYER TO REEL IN TISSUE MACHINE

## ABSTRACT OF THE DISCLOSURE

A dry end of a tissue machine is made shorter by close-coupling a reel-up to the drying section and supporting the web from the drying section to the reel-up by a foil or a belt such that web stability is maintained, thus allowing high-speed operation. The foil's downstream edge can form a nip with the paper roll and nip load can be controlled by controlling pivotal movement of the foil. The reel-up can include a calendering belt for calendering the web as it passes through a nip between the belt and a reel drum supported on the belt, and a rotatable reel spool on which a paper roll is wound in nipping engagement with the reel drum. Alternatively, the reel drum can be eliminated and the paper roll can be supported on the belt. A composite shaftless core for winding is also disclosed.

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